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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/830,049	04/23/2004	Masami Ohnishi	520.43783X00	8728

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EXAMINER

NGUYEN, LINH V

ART UNIT PAPER NUMBER

2819

DATE MAILED: 10/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/830,049

Applicant(s)

OHNISHI ET AL.

Examiner

Linh V. Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 August 2006.
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1-7 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____

DETAILED ACTION

1. This office action is in response to communication filed on 8/14/06. Claims 1- 7 are pending on this application.

Response to Arguments

2. Applicant's arguments filed 8/14/06 have been fully considered but they are not persuasive.

With respect to claim 1, under remarks, applicant pointed to Fig. 1 of applicant's drawing and specification, and argued that: Miyazawa's does not disclosed the structures of Fig. 1 invention. Examiner respectful disagrees because the structures of Fig. 1 are not in the claimed 1 invention. Applicant further argued that Miyazawa's bias transmission lines operate as band rejection filter not a low pass filter. However the low pass filter which applicant argued is not in the claimed invention. Furthermore, is well understood in the art that the band rejection filter having a characteristic of a low pass filter because band rejection filter comprising a low cutoff frequency and a high cutoff frequency, therefore band reject filter also block a signal of a frequency higher than the high cutoff frequency of the band rejection filter.

With respect to claim 7, under remark, applicant directed to Fig. 1 of application, and argued the bias supply line is a low pass filter and, also, is not connected to the radio frequency signal output port (RF OUT), but the bias control part 104. Therefore, reference of Heal does not teach the above of claim 7. Examiner respectful disagrees because "bias supply line is a low pass filter and, also, is not connected to the radio

frequency signal output port (RF OUT), but the bias control part 104" is not in the claimed invention. Further more, Fig. 1 of Heal et al. clearly teach said bias supply line (Bonding wires) comprises a low pass filter (Col. 1 lines 59 – 54, and Col. 2 lines 9 – 15).

Per above, Miyazawa and Heal et al. from prior office action is applying to this office action.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1 – 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Miyazawa U.S. patent No. 6,456,125.

Regarding claim 1, Fig. 1 and 2 of Miyazaka disclose radio frequency amplifier module, comprising: a module substrate (20B); a radio frequency power amplifier (23A, 23B) part which is arranged on said module substrate and amplifies a power of a radio frequency signal (IN); a bias control part (G, DB) which is arranged on said module substrate and controls operation of said radio frequency power amplifier part with a bias voltage (B, DB, 32); and a bias supply line (Bonding wires from G, DB) for supplying the bias voltage from said bias control part (G, DB) to said radio frequency power amplifier part (MMIC), wherein said bias supply line includes at least one bonding pad (32)

having a capacitance (30A, 30B) component to a ground and a bonding wire (Bond wires See Fig. 20 B) formed via said at least one bonding pad (See Fig. 20B).

Regarding claim 2, wherein said radio frequency power amplifier part (MMIC) is constituted as a semiconductor integrated circuit (MMIC) formed on a semiconductor substrate (20B) and said bias supply line (G, DB, 32) is formed on said semiconductor substrate (20B).

Regarding claim 3, wherein said bias control part (G, DB) is constituted as a semiconductor integrated circuit formed on a semiconductor substrate (20B) and said bias supply line (32) is formed on said semiconductor substrate (20B).

Regarding claim 4, wherein said radio frequency power amplifier part (23A, 23B) and said bias control part (G, DB) are constituted as a semiconductor integrated circuit formed on the same semiconductor substrate (20B) and said bias supply line (Bonding wires) is formed on said semiconductor substrate (20B).

Regarding claim 5, wherein said bias supply line (Bonding wires) is formed on said module substrate (20B).

Regarding claim 6, Fig. 2B further comprising: a second substrate (MMIC) formed on said module substrate (20B), wherein one part of a plurality of bonding pads included in said at least one bonding pad is formed on said module substrate (G, DB) and the other part of said plurality of bonding pads (32, 30B, 25) is formed on said second substrate (MMIC).

5. Claim 7 is rejected under 35 U.S.C. 102(b) as being anticipated by Heal et al.

U.S. Patent No. 5,973,567

Fig. 1 of Heal et al. discloses a module substrate (14); a radio frequency power amplifier part (Q1) that is arranged on said module substrate (14) and amplifies a power of a radio frequency signal (10); a bias control part (Col. 2 lines 1 – 4) that is arranged on said module substrate (14) and controls operation of said radio frequency power amplifier (Q1) part with a bias voltage (Column 4 lines 30 – 32); and a bias supply line (Col. 2 lines 1 – 4) for supplying the bias voltage from said bias control part (Column 4 lines 30 – 32) to said radio frequency power amplifier part (Q1), wherein said bias supply line (Bonding wires) comprises a low pass filter (Col. 2 lines 9 – 15) which brings attenuation to a radio frequency signal leaking from said radio frequency power amplifier part to said bias control part (this is a intrinsic characteristic of bond wires having low pass filter; Hence, Heal et al. as applied above taught an amplifier having bias bond wires comprising low pass filter; therefore brings attenuation to a radio frequency signal leaking from said radio frequency power amplifier is intrinsic to power amplifier of Heal et al.).

Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh Van Nguyen whose telephone number is (571) 272-1810. The examiner can normally be reached from 8:30 – 5:00 Monday-Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Rexford Barnie can be reached at (571) 272-7492. The fax phone numbers for the organization where this application or proceeding is assigned are (571-273-8300) for regular communications and (571-273-8300) for After Final communications.

10/13/06

Linh Van Nguyen

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**LINH NGUYEN
PRIMARY EXAMINER**

A handwritten signature in black ink, appearing to read 'Linh Nguyen', is written over the printed name and title.